



SEQUENCE LISTING

<110> Statens Serum Institut

<120> Nucleic acid fragments and polypeptide fragments derived from M. Tuberculosis

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Ser His Gln Gly Thr Ile Ile Ile Glu Ala Pro Pro Glu Leu Pro Arg	
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Asp Asn Ile Arg Ala Gln Ala Ala Glu Gln Arg Ala Ser Ala Leu Trp	
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Pro Asp Tyr Asp Leu Gly Ala Ser Pro Leu Ala Val Gly Arg Ala Gly			
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3990

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 Ser His Pro Asp Pro Thr Ala Leu Ala Ser Val Pro Gly Ser Arg Arg
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 Gln Trp Glu Arg Asp Pro His Asp Pro Asp Phe Leu Val Leu Arg Ala
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 Gly Arg His Thr Val Pro Leu Ala Thr Thr Leu Arg Val Asn Asp Thr
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 Ala Asp Glu Ile Asp Leu Glu Pro Val Ser His Ser Ala Leu Arg Ser
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 Arg Ala Val Leu Arg Ala Trp Ile Ala Gln Ala Val Thr Trp His Asp
 225 230 235 240
 Pro Thr Val Leu Gly Val Ala Leu Ala Ala Arg Asp Leu Glu Gly Arg
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 Pro Asp Tyr Asp Leu Gly Ala Ser Pro Leu Ala Val Gly Arg Ala Gly
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 Val Thr Val Val His Cys Ser Ala Ser Ala Pro His Arg Glu Gln Tyr
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 Ser Asp Pro Glu Lys Pro Ile Leu Arg Val Ala His Gly Ala Ile Glu

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Asp Ser Asn Pro Thr His Ala Gly Leu Arg Ser Ala Ala Thr Arg Gly
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Ala Ser Phe Thr Thr Leu Leu Gly Ile Glu Asp Ala Ser Arg Leu Asp
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Val Pro Ala Leu Trp Ala Pro Arg Arg Asp Glu Glu Leu Arg Val
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Pro Ile Gly Val Thr Gly Thr Gly Glu Pro Leu Met Phe Asp Leu Lys
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Lys Gly Glu Ala Gly Ala Asp Ser Phe Arg Asp Phe Pro Gln Val Val
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Lys Asp Ile Asp Lys Asn Thr Ala Tyr Arg Ile Gly Leu Lys Val Ala
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 Leu Met Leu Ala Gly Asn Pro Ala Asp Ser Gly Lys Ile Arg Gly Glu
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 cgg ttt gcc cga ttg cct gct gga cga gca att ctg ttg acc gac agt 288
 Arg Phe Ala Arg Leu Pro Ala Gly Arg Ala Ile Leu Leu Thr Asp Ser
 85 90 95
 gat agt cca acc tac gtg cag ttg atc aac ccg ctg gtc gat gcg gcc 336
 Asp Ser Pro Thr Tyr Val Gln Leu Ile Asn Pro Leu Val Asp Ala Ala
 100 105 110
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 <213> Mycobacterium Tuberculosis

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Leu Arg Val Ile Val Thr Gly Arg Ala Thr Gly Ser Ala His Leu Leu
 35 40 45
 Met Thr Ser Pro Leu Leu Arg Arg Phe Asn Asp Leu Gln Ala Thr Thr
 50 55 60
 Leu Met Leu Ala Gly Asn Pro Ala Asp Ser Gly Lys Ile Arg Gly Glu
 65 70 75 80
 Arg Phe Ala Arg Leu Pro Ala Gly Arg Ala Ile Leu Leu Thr Asp Ser
 85 90 95
 Asp Ser Pro Thr Tyr Val Gln Leu Ile Asn Pro Leu Val Asp Ala Ala
 100 105 110
 Ala Val Ser Gly Glu Thr Gln Gln Lys Gly Ser Gln Ser
 115 120 125

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 1 5 10 15

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 Val Glu Ala Leu Thr Ala Arg Leu Ala Ala Ala His Ala Ser Ala Ala
 20 25 30

 ccg gtg att acc gcg gta gtg ccg ccg gcg gcg gat ccg gtg tcg ctg 144
 Pro Val Ile Thr Ala Val Val Pro Pro Ala Ala Asp Pro Val Ser Leu
 35 40 45

 cag acc gcg gcc ggg ttc agt gca cag ggc gtc gag cac gcg gtc gtc 192
 Gln Thr Ala Ala Gly Phe Ser Ala Gln Gly Val Glu His Ala Val Val
 50 55 60

 acc gcc gaa ggt gtc gaa gag ctg gga cgc gcc gcc ggt ggt gtg ggc 240
 Thr Ala Glu Gly Val Glu Glu Leu Gly Arg Ala Gly Val Gly Val Gly
 65 70 75 80

 gaa tcc ggc gcc agc tac ctg gcc ggt gat gcg gcc gcc gcc gct acg 288
 Glu Ser Gly Ala Ser Tyr Leu Ala Gly Asp Ala Ala Ala Ala Thr
 85 90 95

 tac ggg gtc gtg ggc ggc 306
 Tyr Gly Val Val Gly Gly
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 <211> 102
 <212> PRT
 <213> Mycobacterium Tuberculosis

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      20           25           30
Pro Val Ile Thr Ala Val Val Pro Pro Ala Ala Asp Pro Val Ser Leu
      35           40           45
Gln Thr Ala Ala Gly Phe Ser Ala Gln Gly Val Glu His Ala Val Val
      50           55           60
Thr Ala Glu Gly Val Glu Glu Leu Gly Arg Ala Gly Val Gly Val Gly
      65           70           75           80
Glu Ser Gly Ala Ser Tyr Leu Ala Gly Asp Ala Ala Ala Ala Thr
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Tyr Gly Val Val Gly Gly
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gcg aaa ttg gcc ggc ctc gtt ttt ccg cag cct ccg gcg ccg atc gcg      96
Ala Lys Leu Ala Gly Leu Val Phe Pro Gln Pro Pro Ala Pro Ile Ala
      20           25           30

gtc agc gga acg gat tcg gtg gta gca gca atc aac gag acc atg cca      144
Val Ser Gly Thr Asp Ser Val Val Ala Ala Ile Asn Glu Thr Met Pro
      35           40           45

agc atc gaa tcg ctg gtc agt gac ggg ctg ccc ggc gtg aaa gcc gcc      192
Ser Ile Glu Ser Leu Val Ser Asp Gly Leu Pro Gly Val Lys Ala Ala
      50           55           60

ctg act cga aca gca tcc aac atg aac gcg gcg gcg gac gtc tat gcg      240
Leu Thr Arg Thr Ala Ser Asn Met Asn Ala Ala Ala Asp Val Tyr Ala
      65           70           75           80

aag acc gat cag tca ctg gga acc agt ttg agc cag tat gca ttc ggc      288
Lys Thr Asp Gln Ser Leu Gly Thr Ser Leu Ser Gln Tyr Ala Phe Gly
      85           90           95

tcg tcg ggc gaa ggc ctg gct ggc gtc gcc tcg gtc ggt ggt cag cca      336
Ser Ser Gly Glu Gly Leu Ala Gly Val Ala Ser Val Gly Gly Gln Pro
      100           105           110

agt cag gct acc cag ctg ctg agc aca ccc gtg tca cag gtc acg acc      384
Ser Gln Ala Thr Gln Leu Leu Ser Thr Pro Val Ser Gln Val Thr Thr
      115           120           125

cag ctc ggc gag acg gcc gct gag ctg gca ccc cgt gtt gtt gcg acg      432
Gln Leu Gly Glu Thr Ala Ala Glu Leu Ala Pro Arg Val Val Ala Thr
      130           135           140

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115															120					125							
Gln	Leu	Gly	Glu	Thr	Ala	Ala	Glu	Leu	Ala	Pro	Arg	Val	Val	Ala	Thr												
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Asn	Ala	Ser	Pro	Ile	Ala	Gln	Thr	Ile	Ser	Gln	Thr	Ala	Gln	Gln	Ala												
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Ala	Gln	Ser	Ala	Gln	Gly	Gly	Ser	Gly	Pro	Met	Pro	Ala	Gln	Leu	Ala												
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Ser	Ala	Glu	Lys	Pro	Ala	Thr	Glu	Gln	Ala	Glu	Pro	Val	His	Glu	Val												
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Thr	Asn	Asp	Asp	Gln	Gly	Asp	Gln	Gly	Asp	Val	Gln	Pro	Ala	Glu	Val												
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Ala	Pro	Ser	Thr	Thr	Thr	Thr	Leu																				
275															280												